

Bynel® 21E830

Ethylene Acrylate Copolymer

DuPont Packaging & Industrial Polymers

Message:

BYNEL® Series 2100 resins are anhydride modified ethylene acrylate resins. They contain a temperature stable ester which makes them functional in high temperature coextrusions. They are available in pellet form for use in conventional extrusion and coextrusion equipment designed to process polyethylene (PE) resins.

BYNEL 2100 series resins adhere to a wide variety of materials. They are most often used to adhere to PET to EVOH or PA. They also adhere to PE, PP, and ethylene copolymers.

The BYNEL 2100 series resins can be used in a variety of coextrusion coating and laminating applications.

General Information			
Features	Good adhesion		
Uses	Laminate		
	Coating application		
	Adhesive		
Agency Ratings	FDA 21 CFR 175.105		
Forms	Particle		
Processing Method	Co-extrusion molding		
	Extrusion		
	Extrusion coating		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.946	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.5	g/10 min	ASTM D1238, ISO 1133

Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	93.0	°C	ASTM D3418, ISO 3146

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	160	°C
Cylinder Zone 2 Temp.	210	°C
Cylinder Zone 3 Temp.	235	°C
Cylinder Zone 4 Temp.	235	°C
Cylinder Zone 5 Temp.	235	°C
Adapter Temperature	235	°C
Melt Temperature	< 260	°C
Die Temperature	235	°C

Extrusion instructions

The above processing values are for coextrusion with EVOH.Coextrusion with Nylon parameters:

Feed Zone: 160°C

Second Zone: 210°C

Third Zone: 235°C

Fourth Zone: 260°C

Fifth Zone: 260°C

Adapter Zone: 260°C

Die Zone: 260°C

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